1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
~~Lou Swanlek~~ EVAN WINSTON	20 APR 01	01-0338	—	301.925.0437	3008H	DEV/CO

8. CCR Title: Test Executable 5B.07_PDPS.02 Provides fixes for PDPS including 29995 and 29681. For all DAACs, this obsoletes 5B.07_DPS.01 and 5B.07_PDPS.01.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 19APR2001
[signature] 4/19/01	II	CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
[signature] 4/19/01	Initial ECS Baseline Doc.	Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact: n/a	18. CI(s) Affected: PDPS

19. Release Affected by this Change: 5B	20. Date due to Customer: 11APR01	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
29995,29681,29843,29619,26040,27162,28182,30075,30170,29448,30314,30367,30311,30102,29680,28772,29878, 30065, 29621, 30066, 27919, 30058, 30356, 30443, 29850, 30501, 30368, 30357, 30501, 30442

23. Problem: (use additional Sheets if necessary)
29995: 1)Modified stored procedure ProcGetDeletableGranules to favor static over dynamic granules during disk space reclaimation
2) Consolidated ProcGetDeletableGranules and ProcGetGranNoLookAhead into one stored procedure - ProcGetDeletableGranules
3) Changed stored procedure call syntax in DpPrResourceManager to use new stored procedure call
NCR 29681: Changed DPREP so that it can repair a data point that immediately precedes a data gap to be gap-filled.
NCR 29843: Fixed the "remove node" operation in the AM-1 DPREP PGE RepEph so that it now completes the operation.
Please see page 3 for information on these and the other listed NCRs.

24. Proposed Solution: (use additional sheets if necessary)
TE 5B.07_PDPS.02 to provide the needed changes. This TE is to be loaded on top of installations of 5B.07 with TEs SYS.01A installed. This TE obsoletes TEs 5B.07_PDPS.01 and 5B.07_DPS.01.

25. Alternate Solution: (use additional sheets if necessary)
Wait until next s/w release.

26. Consequences if Change(s) are not approved: (use additional Sheets if necessary)
Delays in getting fixes to the field, DAACs must continue to work around problems

27. Justification for Emergency (If Block 15 is "Emergency"):
Corrections are required at LaRC & GSFC ASAP.

28. Site(s) Affected: ☐EDF ☒PVC ☒VATC ☒EDC ☒GSFC ☒LaRC ☒NSIDC ☒SMC ☐AK ☐JPL
☐EOC ☐IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	Disposition: (Approved) App/Com. Disapproved Withdraw Fwd/ESDIS ERB
[signature] 4/20/01	

33. M&O CCB Chair (Sign/Date):	Disposition: ~~Approved~~ App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
[signature] 19 Apr 01	

34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB

ORIGINAL

ADDITIONAL SHEET

CCR #: ⊘ 1-0338 **Rev:** — **Originator:** Lou Swentek

Telephone: x0437 **Office:** 3008H

Title of Change: Test Executable 5B.07_PDPS.02 Provides fixes for PDPS including 29995 and 29681. For all DAACs, this obsoletes 5B.07_DPS.01 and 5B.07_PDPS.01.

CM:
Please generate an SGI/IRIX tar from the 5B6A (5B.07) baseline for the following package:
.EcDpScSCNCPRCS.pkg

Also generate a SUN TAR file tfrom the 5B6A (5B.07) baseline to include the following:
Packages from /ecs/formal/PDPS/DPS/PRONG:
.EcDpPrPLNMGMTWS.pkg
.EcDpPrQUESRVR.pkg

Package from /ecs/formal/PDPS/DPS/SSIT
.EcDpAITWS.pkg

Packages from /ecs/formal/PDPS/PLS
.EcPIODPRM.pkg
.EcPIPLNMGMTWS.pkg
.EcPIQUESRVR.pkg

and make the delivery through the SMC.

SMC: Receive the TAR file(s) and make available to the DAACs, PVC and VATC.

DAAC Install Instructions:

1. Get TAR Files from SMC distribution.

2. UNTAR the files and copy to the staging area using the Setup.ksh file. Be sure to select "Y" when prompted for "Update ECS Assist Common Files" to get the latest version of ECS ASSIST. THIS MUST BE RUN AS ROOT.

3. On a SUN host, use E.A.S.I. to perform automated installation of all seven packages listed above as follows:

    a. Select the Mode to be installed
    b. Enter the location of the staged files
    c. Select CUSTOM and Click Next
    d. Select the "Subsystem" entry in the "Sort By" box.
    e. Click on the DPS icon to highlight it.
    f. Holding down the Shift key, click on the PLS icon to highlight it.
    f. Once you have selected both icons listed above, click Next.
    g. Select Install as the Installation Phase and Click Next
    h. Select STAGE as the Source File Location. Click Next
    i. Review the packages and hosts as displayed to ensure that they are going to be installed appropriately. Click Next.
    j. Click COMM and ensure all hosts displayed turn green, signaling that they are communicating with E.A.S.I.
    k. Click INSTALL and monitor each host. Ensure each host icon turns green signaling a successful installation.

4. Install the PDPS database patch by running ECS Assist Subsystem Manager from the PLS host:
    a. From the ECS Assist Subsystem Manager, select the mode for which the patch is being applied.
    b. Select PLS from the list of subsystems displayed Click on "EcPI" in the Components box.
    c. Click on the Database icon. Select "DbPatch" from the drop-down menu.

d. Select ".dbparms" from the window that appears. Click "Ok".

e. When the window is displayed with the message "Nothing to Configure", click "OK".

f. Fill in the requested information for the PDPS database. Click "Ok".

g. Monitor the output log for any errors. View the dbpatch log in the /usr/ecs/<MODE>/CUSTOM/logs directory to verify that there are no errors.

h. Continue on to step 5.

5. Update the EcDpPrDeletionClient "ProgramId" configuration parameter.

   a. Select the DPS button. Click on the EcDpPr entry in the "Components" window.

   b. Run the DPS/PRONG registry patch:

      1. Select Tools from the top line Menu

      2. Select Registry Data Patch

      3. Enter the Registry DB access parameters as prompted. Ensure that the <RETURN> key is pressed after entering the value for Registry DB Name. Click the down arrow to select the appropriate Registry Tree to Patch. Click the "Select Patch File" button to enter the path whtere the .rgypatch is located.

                 /usr/ecs/<MODE>/CUSTOM/.installed/DPS/PRONG/.rgypatch

   c. Update the configuration file:

      1. Click on the "Mkcfg" icon.

      2. Select ".cfgparms" from the list displayed. Click Ok.

      3. Review the configuration parameters displayed and click Ok.

      4. Monitor the displayed output log for any errors.

      5. Verify the new configuration files that were created against the existing configuration files.

      6. Move config files for servers running from the registry from xxxxx.CFG to xxxxx.CFG.rgy. If an EcDpPrEM.CFG file is generated, it is recommended that this file not be moved to a .CFG.rgy file.

Summary of all NCR fixes:

29995: 1- Modified procedure "ProcGetDeletableGranules" to delete dynamic granules not being used by DPRs later in the chain. 2- Dropped procedure "ProcGetGranNoLookaheed", since "ProcGetDeletableGranules" does the same job.

29681: Changed DPREP so that it can repair a data point that immediately precedes a data gap to be gap-filled.

29843: Fixed the "remove node" operation in the AM-1 DPREP PGE RepEph so that it now completes the operation.

30102: Complete delivery by supplying updated .met files to supplement the revised FddAtt PGE test data sets.

30311: Change the default ephemeris long gap threshold for AM1Eph PGE from 60 to 58 records.

30367: The query was modified in the method PINotification::ReprocessAllMessages, which is only called at SubMgr startup, to process notifications by insertion time rather than alphabetically.

28772: Added warning messages in log files when alternate inputs not found.

29878: Changed the registry calls to the way suggested, wherever new EcPfConfigFile objects where being created.

30314: Changed from loops on indexes to iterators in the two places mentioned in the NCR.

29448: The Deletion Client program is not connecting to the PDPS database because the ProgramId number it uses is incorrect in the Mkcfg file. Corrected ProgramId value in both .rgypatch and mkcfg.

30102: Changed the unit test data sets for AM-1 DPREP PGE FddAtt from a data interval of 1.024 seconds to 0.512 seconds.

28182, 27162, 26040: 1) Rewrite EcDpPrRmFilesWOGranules.pl script to fix the operational and performance problems of the old script. 2) Add EcDpPrRmFilesWOGranules.README file to baseline to offer instruction and help to DACCs. The corresponding .iu file is also changed.

29619: Fixed the code for PGE failed tar file insertion and DPR completionState.

30075: Changed DPREP source code so that it excludes missing data counts from data segments not currently being processed (i.e. missing data from long data gaps immediately preceding the current segment).

30065, 29621: Modified ProcFindPrimaryInput to always return NULL. Modified ProcMachineAssignment to return with error if chainId is NULL

29680: Remove the hard coded isql loginId and password in reset_dbMkcfg and save_dbMkcfg. Also, clear_db, dump_db and load_db scripts are no longer require login id and password in the parameter. Instead, the user will enter them at the prompt.

30066: Changed PINotification.C,.h,.ic to create an insertionTime data member. Changed the table retrieval method so that when checking for failed/internal dynamic notifications, it will retrieve records from the PINotification table sorted by insertion time.

30170: Corrected DPREP error messages so that they match error conditions.

ECSed27919 Added config parameter to .cfgpatch and .rgypatch. and EcDpPrEMMkcf.

ECSed30058 Replace some DB read calls through DpPrDbInterface::SelectAndReadColumns with direct ExecuteSQL calls in hope of a performance improvement. An unnecessary DB read is taken out from PIDpr::Read.

30356 Change PITimer class to release multi-dprs to JobManagement at one shot to save the connection time if release them one by one. This code change is done by fnathan.

30443 Incomplete error messages will no longer be sent for display to the User by ODMGR to ODFRM

29850 Orbit model processing has troubles due to intermittent orbit time calculation failures.

ECSed30501 Add a new thread to checking for dprs with pending state in SubMgr.

   EcPIDbClean now does not check for ECS_HOME; it lets EcCoEnvKsh do the checking.

30368 Modified DpPrScheduler::CreateDprJob to only update numScheduled when the scheduledMachine has been set in the PREditor.

30357 Optional input type is being set to 1 instead of 2 as documented.
So a quick fix is made to tweak Planning workbench code to take this
into consideration. When the dust settle down, a final fix should set
optional input type to 2 in SSIT and queries in PWB and SubMgr need to
be changed correspondingly.

30422 Changed the code in the PlPrActivator::Activate method to reset, before searching for availability of inputs, the flag
which determines whether DPRs sent to JobManagement have all of their inputs .

CM01AJA00